

CLAIMS

1. An air distribution system for combined refrigerators of the type which comprises: a freezing compartment (10) and a refrigerating compartment (20);
5 an air-cooling compartment (40) lodging at least one evaporator (45); a distributing duct (60) having a rear window (62) opened to the air-cooling compartment (40), at least one front opening (65) communicating with the freezing compartment (10), and one end
10 opening (64) maintained in communication with the refrigerating compartment (20); and at least one fan (46, 47) producing a forced airflow from the air-cooling compartment (40) to the freezing compartment (10) and to the refrigerating compartment (20),
15 characterized in that the distributing duct (60) carries a conduct (63), having a first end coupled to the end opening (64) of the distributing duct (60), and a second end selectively placed in fluid communication with one of the parts defined by the
20 distributing duct (60) and by the air-cooling compartment (40), said conduct (63) being internal to the distributing duct (60).
2. The air distribution system according to claim 1, characterized in that the conduct (63) is incorporated
25 to the distributing duct (60).
3. The air distribution system according to claim 2, characterized in that the distributing duct (60) comprises a rear basic portion (60a) in the form of a vertically disposed tray, having a rear wall provided
30 with a rear window (62) and defining at least part of a front wall of the air-cooling compartment (40), and a front cover portion (60b) to be seated and affixed against the rear basic portion (60a) and being provided with at least one front opening (65).
- 35 4. The air distribution system according to claim 3,

ART 34 AMDT

characterized in that the front cover portion (60b) defines a wall portion of the conduct (63) when assembled.

5. The air distribution system according to claim 1,
5 characterized in that the conduct (63) is maintained in selective fluid communication with one of the parts defined by the distributing duct (60) and by the air-cooling compartment (40) by means of respective front opening (66) and rear opening (67) produced by the
10 rupture of corresponding wall portions of the conduct (63).

6. The air distribution system according to claim 5,
characterized in that the conduct (63) conducts a forced airflow supplied, through the inlet opening
15 (66), coming from the distributing duct (60)), to whose rear window (62) is operatively associated a fan (46).

7. The air distribution system according to claim 5,
characterized in that the conduct (63) conducts a
20 forced airflow, which is produced by a fan (47) that is operatively associated to the end opening (64) and to the refrigerating compartment (20), and which is supplied by the air-cooling compartment (40) to the conduct (63), through the rear opening (67).